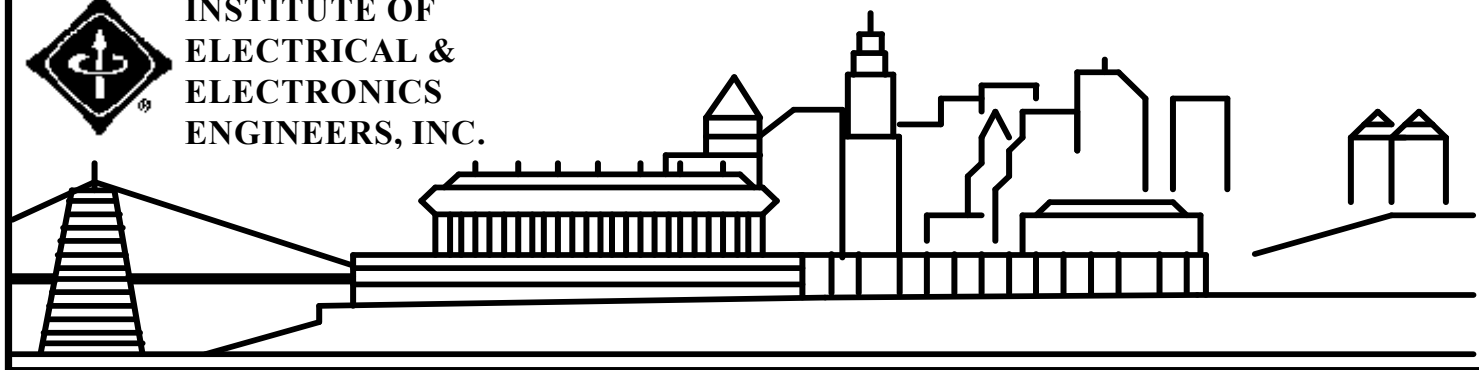




INSTITUTE OF
ELECTRICAL &
ELECTRONICS
ENGINEERS, INC.



MAY 2000

IEEE CINCINNATI SECTION NEWSLETTER

MAY MEETING LINUX – YOUR NEXT OPERATING SYSTEM?

DATE : May 25, 2000

PLACE : Hartwell Recreation Center - See map on Page 2

TIME: 6:30 to 7:00 PM (Social Time)
7:00 PM (Program)
8:30 PM (Approx. - Adjournment)

THIS IS NOT A DINNER MEETING!!!! If desired, Sorrento's (8794 Reading Road) has areas or back rooms which members may use if they wish to meet for dinner prior to the 6:30PM start of the Social Time. Suggested arrival time at Sorrento's would be by 5:25 PM. Any one wanting to be seated with the IEEE group, should tell the hostess upon arrival.

Please call the Cincinnati Section Voice Mailbox at 629-9380, by Noon, Tuesday, April 25, 2000 if you plan to attend. Please leave **your Name, IEEE Member Number and a daytime telephone number.**

ABOUT THE MEETING: This presentation will describe LINUX, compare it to Microsoft Windows, and discuss its uses in the scientific/engineering community. Current software applications that run under LINUX will be described and demonstrated, including a small Beowulf system that uses many machines to emulate a faster system; a microcomputer programming interface that uses LINUX will also be shown. The presentation will also speculate on the future of LINUX, including operating system enhancements, and its role in engineering and business. LINUX CD-ROMs will be given as door prizes, and handouts will be distributed that include web links and pointers to free scientific software that runs on LINUX.

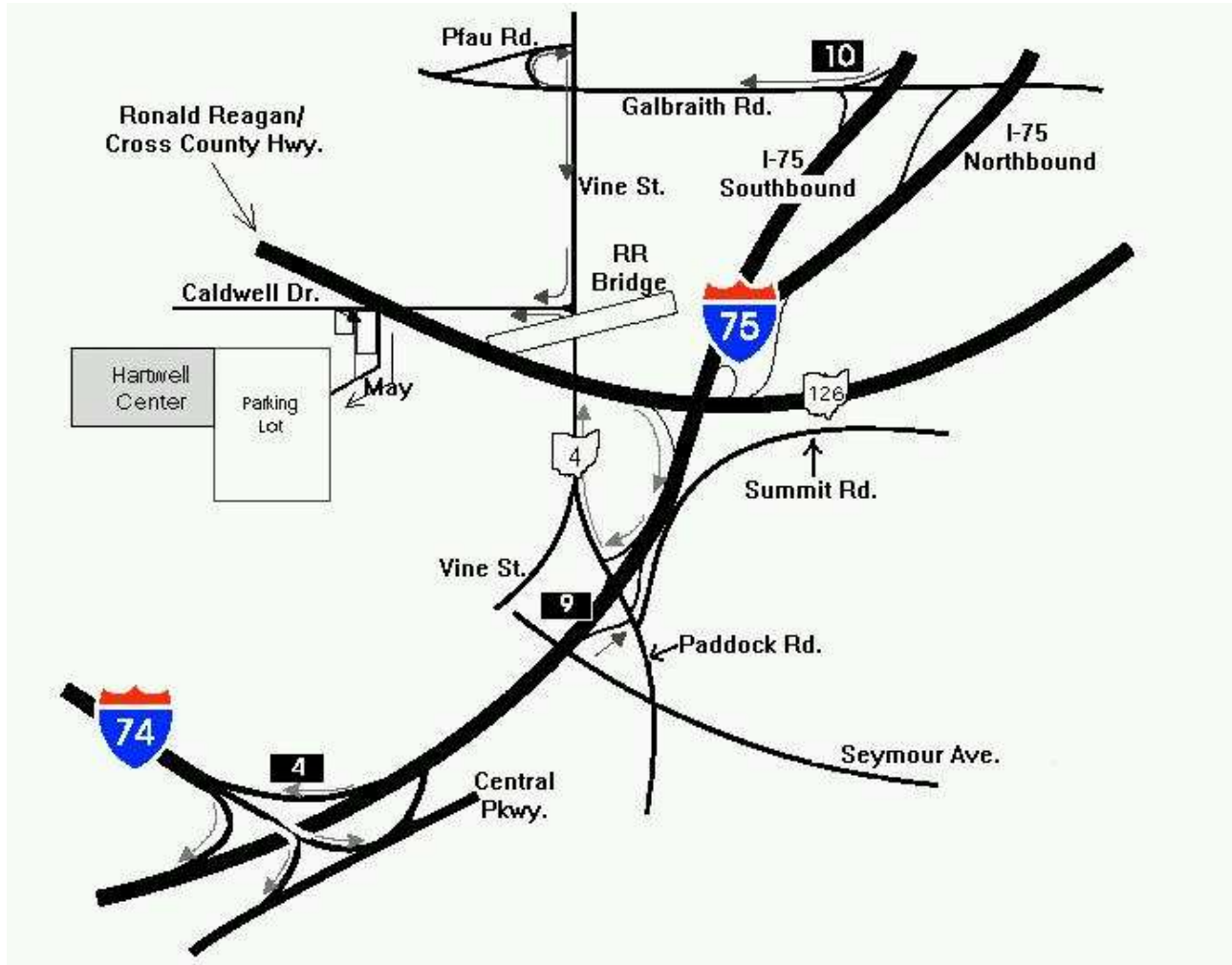
BACKGROUND OF THE SPEAKERS: Michael Roberts works for an information technology company in the Cincinnati area, where he serves as a consultant on scientific, engineering, and business projects. He has had over twenty years of programming experience in languages including ALGOL, FORTRAN IV, and Visual BASIC; and has been using UNIX systems in one form or another since 1990. He has a BS from the University of Michigan and a doctorate in chemistry from the University of Cincinnati.

Willis Yonker also works for an information technology company, where he also serves as a consultant. He has experience administering Windows NT, Novell, and UNIX networks, and he has programming experience in

C++, Visual BASIC, and HTML. Mr. Yonker also has his own business that specializes in LINUX server installations.

Monty Stein has been using LINUX since 1994 when it could be installed with a mere 53 floppies. He uses LINUX at his home for everything from playing games to home automation. Mr. Stein has a B.S. in computer science from Colorado State University, specializing in microprocessor design. In his current job, he ports a large CAD system to AIX.

MEETING LOCATION DIRECTIONS:



From the North: Via I-75 Southbound, take Exit 10, turn right onto Galbraith Rd. Go West, past Vine St, take turnout onto Pfau Rd. to Vine (Ohio Rt. 4). Right onto Vine Southbound. Right onto Caldwell just before the Railroad bridge. Turn left onto May into the parking lot.

From the West using I-74 and Cross County: I-74 to I-275 Northbound; I-275 Northbound to Cross County (Ohio Rt. 126); Ohio 126 to I-75 Southbound to Exit 9. Turn right at the end of the ramp; Under the second Railroad bridge, turn left onto Caldwell; Under expressway bridge, turn left onto May into the parking lot.

From the South: Via I-75 N, take Exit 9; Left onto Paddock / Vine / Ohio Rt. 4. Under the Railroad bridge to traffic signal (Caldwell); Left onto Caldwell, then left onto May into the parking lot.

THIS NEWSLETTER IS AVAILABLE BY E-MAIL OR ON THE WEB NEWSLETTER ARCHIVES AVAILABLE ON THE WEB

By Bob Morrison, Editor

Did you know that you can get this newsletter by e-mail? You can also see it on the Section's Web Page at <http://ieee.cincinnati.fuse.net/>. In the last month, there have been over 100 Cincinnati Section members change to e-mail subscription.

If you would like to receive a sample copy via e-mail, call me at 287-3697 or send me an e-mail at j.r.morrison@ieee.org. If you like that method, let me know & I'll switch you over. If you decide you would like to simply view it each month on the Web, let me know and a reminder e-mail will be sent to you when the new issue has been posted.

Also, thanks to Randy Holt, our Membership Coordinator/Webmaster, past issues of this newsletter are now available on our web page. The archived newsletters cover the years 1993 to the present. Stop by and see what you might have missed.

CHAIR'S MESSAGE

by Ron Harbaugh, Section Chair

To paraphrase the movie line, "they made us an offer we could not refuse". IEEE President Bruce Eisenstein contacted your Section Chair and made us the offer to supply the Cincinnati Section with services for better investments of our funds. Also, we have available the advantage of an interest bearing/no cost checking account. After looking over the offer made by the President, we decided to sign up with IEEE banking and make our investments through the Institute program. Our IEEE Section is not eligible for special banking programs locally. This will save money on banking fees along with a few more dollars of collected interest for our Section.

The Senior Membership workshop for May 13 is canceled. Time conflicts became a problem with everyone involved. Bryan Buchanan is continuing to collect information and applications from members wanting to advance to Senior Membership status. We can still proceed with the collection and evaluation process for the membership without doing the process through a workshop right now. If you wish to advance to Senior membership, you can contact me and I will get the application to you and assist you with the process.

We thank Jim Burghart for coming to town with his excellent PACE presentation at our April 27 Section meeting. Jim gave us a lot of information about Pace activities in Region 2. We got some ideas for Pace projects that our Section can pursue.

Again, congratulations to our IEEE Third Millennium Medal winners. Jim Everly and Jim Burghart presented the medals and certificates at the April Section meeting. My fellow medal winners are Jack Beckmeyer, Orest Melnyk, Bill Lohner, Bob Morrison, Randy Holt and Dick Reiman. Thanks for the work all you have done and continue to do for the Cincinnati Section.

Looks like this will be it for me until the September newsletter. I'll see you in then. Everyone have a pleasant and safe summer season. We can come back fully rested for another go at our IEEE activities. Meanwhile, we are always open. Send an email to my address listed herein if you have any issues or ideas for or about our Section or its activities.

NEW MEMBERS

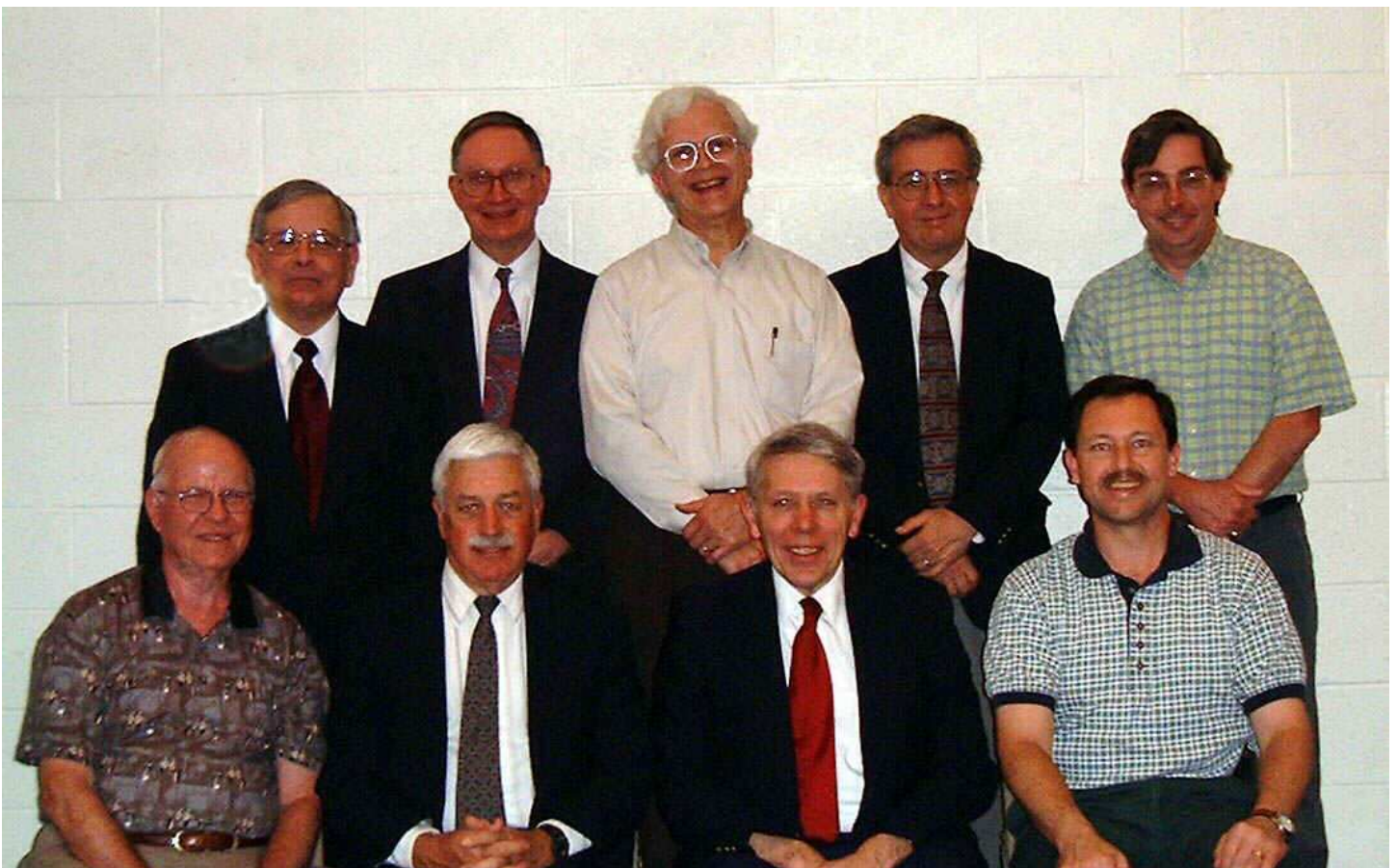
The following individuals are IEEE members who are new to our Section:

Yasser A. Abdel Aziez	David L. Cox	Le Jiang
Pravin K. Bakshi	James A. Dyer	Robert E. Peddenpohl
James P. Cleereman	Matthew X. Economou	Kelly J. Schneider

We wish to extend our welcome to all of our Section's new members!!!

IEEE THIRD MILLENNIUM MEDALS PRESENTED TO SECTION MEMBERS

Seven Cincinnati Section members were presented with their IEEE Third Millennium Medals at the April 27th Section Meeting. The awards were presented by Mr. James Burghart, Chair of the Region 2 Professional Activities Committee and Region 2 PACE Coordinator, who was the speaker at the meeting. The award winners were: Randy Holt (Membership Chair), Jack Beckmeyer (Arrangements Chair), Orest Melnyk (Treasurer), Bob Morrison (Newsletter Editor), Ron Harbaugh (Section Chair), Dick Reiman (Historian) and Bill Lohner. Pictured below are: Seated (L to R) Dick Reiman, Tom Grau (Section Vice Chair), Ron Harbaugh and Orest Melnyk ; Standing (L to R) Jim Everly, James Burghart, Randy Holt, Jack Beckmeyer and Bob Morrison. Not pictured was Bill Lohner.



WANT TO UPGRADE TO SENIOR MEMBERSHIP?

Last fall there was a very successful Senior Membership Workshop. As a result of that workshop there were ten members elevated to Senior Membership - one of the largest groups in the country.

This fall we would like to continue submitting nominations for Senior Members, but without the workshop. Bryan Buchanan (513-777-8448 or bryanbuch@fuse.net) is coordinating this effort. Those who are interested please contact him for assistance. He will make sure you have the proper forms, review it with you, make suggestions on completion and obtain the proper reviews and approvals by the required Senior Members. Where there are multiple members with one company, he will visit with you to do this review. (It would be ideal to have three Senior Members from each company.) There is a meeting scheduled with General Electric on May 11th. Let's have a successful spring.

History and Impact of Usenet and the Internet

by Dick Reiman, Historian

In the fall of 1992, an undergraduate college student's project was to do research on the computer network which spans the globe, employing interviews, sending letters and gathering data. His question to Eastern Europe asked whether the disintegration of Eastern Europe was at least in part due to the lack of free speech because of impending computer development. He also asked for any evidence that the Berlin Wall had fallen because of new developments in computer communications. These questions were posted on the computer network news system called Usenet.

"Posting" is sending an article to be propagated around the world. Usenet is similar to an electronic newsmagazine or a world town meeting. Within a few hours, he received responses to his question that dealt with the fundamental change the Internet represents over previous communications media. A biologist in Russia noted that he was in the camp that could not use the computer-mediated communications. A second person from Russia said that the Internet "is the first and only connection to the rest of the world." This correspondent noted that it was easier to access the Internet for electronic mail than to get permission to use a photocopy device. Also, he continued, conventional mail and a FAX message had less than a 50% chance of getting through while e-mail would be received in hours. A German student described how the increased communications from computer networks aided in the fall of the Berlin Wall and also supplied accurate information of events at the Chernobyl nuclear disaster.

The student next tried to determine how far the network reached to the four corners of the Net, especially to weird or abnormal locations. He received over fifty messages from France, India, Africa and Japan. In France, an Internet connection was discouraged by the government's high charge for its use. The replies ranged from lack of Internet sites in Poland, to burgeoning growth in New Zealand due to free access. South Africa struggled with providing access to the interior. After the final draft, the student's report was posted on Usenet to wide acclaim. Usenet has important educational possibilities on a worldwide scope. How was Usenet created and what future growth problems might be encountered?

To begin, the definition of Unix, "an operating system common to work stations on which most Internet protocols were developed" is helpful. A "protocol" is "an agreed upon method for two computers to communicate." Usenet was born in 1979 when Tom Truscott and Jim Ellis, graduate students at Duke University, conceived of connecting a computer network to link together those in the Unix community. A third graduate student from the nearby University of North Carolina at Chapel Hill, Steve Bellovin, joined the project and wrote some simple scripts so that the computers at the two sites would automatically call each other and search for changes in the computer files, and then copy them. A third site was added as the Duke Medical School joined in. The program was too slow, so graduate student, Stephen Daniel, with help from Tom Truscott,

rewrote the code in C programming language to speed it up. This became the first Usenet program and was named "A News."

Intertech 2000 Conference in June

The Sixth Interamerican Conference on Engineering and Technology Education (INTERTECH 2000) will be held in Cincinnati, Ohio USA from June 14–June 16, 2000. The conference will be hosted by the University of Cincinnati. The Theme of the conference: "Engineering Education in the Americas and the New Millennium". INTERTECH offers a unique opportunity for the discussion of issues related to the needs and interests of Engineering and Technology Education in the Americas as well as the development of links with colleagues from the Americas and around the world.. It also provides, in many diverse technical and plenary sessions, a major forum for the exchange of information on research and development in all fields of Engineering.

The conference generates countless opportunities for technological and educational interchanges, fostering the implementation of projects related to student and faculty exchanges, joint research and technological training throughout the Americas.

INTERTECH 2000 will mark the 10th anniversary in the evolution of this organization. For more information including registration forms, please visit the conference web site at: <http://intertech2000.uc.edu/>

IEEE NEWS

IEEE-USA EYE ON WASHINGTON

Vol. 2000, No. 7 (31 March 2000)

HOUSE FY 2001 BUDGET RESOLUTION BOOSTS S&T FUNDING BY \$1 BILLION

As part of the annual federal budgeting process, House of Representatives adopts a budget resolution which sets the bottom line on federal spending authority for the forthcoming fiscal year. The budget resolution also allocates the available funds across several broad budget functions, such as Function 250 for general civilian science, space and technology research. These functions in turn dictate how much money can be allocated by budget appropriators to federal agencies such as NASA, the National Science Foundation, the Department of Energy and others.

The House of Representatives recently passed its FY 2001 budget resolution, with an amendment by Rep. Vernon Ehlers (R-MI) to increase funding for basic research to \$20.3 billion. This represents a 5.2 percent increase or \$1 billion over the FY 2000 level, and \$500 million above the level recommended by the House Budget Committee. According to Ehlers "by increasing funding for civilian basic scientific research and development by \$1 billion, Republicans are making a commitment to science and technology, the cornerstone of our thriving economy and the keystone of our national defense."

Also included in the budget resolution is a Sense of the Congress provision recommending that the National Science Foundation be given funding priority in 2001 because of its important role in funding basic research and in recognition of its 50th Anniversary. This resolution was suggested by the American Association of Engineering Societies.

This unexpected increase represents hard work behind the scenes by several representatives including House Budget Committee Chairman John Kasich (R-OH), David Dreier (R-CA), Vern Ehlers (R-MI), Steven Kuykendall (R-CA), Dan Miller (R-FL), James Rogan (R-CA), Nick Smith (R-MI), Dave Weldon (R-FL) and Rush Holt (D-NJ). Their efforts were bolstered by a blitz of letters from the Science Coalition, Coalition for National Science Funding members, the Council on Competitiveness and others urging increased support for America's science and technology enterprise.

Attention now shifts to the Senate, which will finalize its own budget resolution and then meet with the House to reconcile the two proposals.

DEMOCRATIC LEADERSHIP ENDORSES GUESTWORKER VISAS

In March 28 remarks to a gathering of N. Virginia high-tech groups, House Minority Leader Richard Gephardt endorsed increases in the H-1B visa cap for entry of non-immigrant high-tech guestworkers. Gephardt noted: "Raising the existing ceiling on H-1B visas alone is a quick fix that does nothing to address our future dependency on imported talent to fill our technology jobs. I support raising the cap, and will support bipartisan legislation to ensure that our technology companies don't suffer from this lack of skilled workers. But I will only support this increase because it is coupled with important funding for education and training programs that provide long-term solutions to allow us to product home-grown talent to fill many of these jobs. While I have always supported legal immigration -- and attracting some of the best and brightest to our shores from around the globe -- it must become our national priority to produce an American workforce with 21st Century skills."

Gephardt's remarks signal that House Democrats will fully support the HI-TECH Act of 2000 (H.R. 3983), legislation sponsored by Reps. Zoe Lofgren (D-CA) and David Dreier (R-CA), which would increase the H-1B visa ceiling to 200,000 in FY 2001-2003, reserve 60,000 visas for guestworkers with graduate level degrees, and 10,000 visas for use by educational, non-profit and government research institutions.

H.R. 3983 would also double the visa application fees to \$1000 and invest the proceeds in a variety of educational programs and scholarships.

In the Senate, a vote on Senator Orrin Hatch's American Competitiveness in the 21st Century Act (S.2045) is anticipated on April 12. That bill would increase the caps on H-1B visa to 200,000 in FY 2000-2002, create broad exemptions for guestworkers with graduate degrees and guestworkers employed by educational and research institutions, and would keep the visa application fee at its current \$500 level. Senator Ted Kennedy (D-MA) is expected to offer an amendment in the nature of a substitute bill modeled on the House bill H.R. 3983. IEEE-USA continues to work with the House and the Senate to encourage Congress to consider immigration reforms to promote permanent immigration rather than expanded use of guestworkers.

More information on IEEE-USA's activities is available on-line at
<http://www.ieeeusa.org/grassroots/immreform>

PTO ANNOUNCES NEW PATENT RULES FOR "BASIC BUSINESS PRACTICES" AND SOFTWARE

On March 29, the U.S. Patent and Trademark Office announced new processes for review of patent applications based on "business methods" and software, as part of its new Business Methods Patent Initiative. The Initiative is prompted by the rapid growth of these types of patent applications, which is traced back to a 1998 Federal appellate court ruling which recognized the right of software developers to patent both software and "business methods" or ways of doing business. This prompted a rush of patent applications covering innovations such as Y2K workarounds, Amazon.Com's check-out process and Priceline.Com's reverse auction system.

Under its new rules, "business method" patent applications will be subject to an additional layer of review by a senior patent examiner, software review guidelines will be strengthened, and the number of business method patents subjected to additional quality checks will be doubled.

A brief outline of the action Plan is available on-line at
<http://www.uspto.gov/web/offices/com/sol/actionplan.html>

NSF ANNOUNCES NEW RESEARCH OPPORTUNITIES

The National Science Foundation's Engineering Directorate has released two new solicitations for grant proposals. The first solicitation (NSF 00-49) targets New Technologies for the Environment, which targets proposals for high-risk/high return exploratory research on new technologies for environmental sensing, remediation and environmentally benign manufacturing. A total of \$3 million is available in FY 2000 to fund approximately 20 Phase I "feasibility" awards. Successful Phase I projects will then compete in FY 2001 for Phase II funding of up to \$500,000 per project. The proposal deadline is May 15, 2000. For more details, consult the notice at <http://www.nsf.gov/pubs/2000/nsf0049/nsf0049.htm>

The Biophotonics Partnership Initiative (NSF 00-54) will support individual investigators or small groups in high risk/high return multidisciplinary studies of novel concepts in biophotonics. With \$1.5 million available in FY 2000, NSF plans to make five awards will may last up to 36 months. The proposal deadline is May 15, 2000. For more details, consult the notice at <http://www.nsf.gov/pubs/2000/nsf0054/nsf0054.htm>.

Also, in support of its IT Workforce Emphasis, NSF is soliciting grant proposals that address important research questions related to the under-representation of women and minorities in the IT workforce. Focus themes include environment and culture, the education environment, and the IT workplace. Multi-disciplinary collaborations among researchers in IT, the social sciences, and education are strongly encouraged. NSF expects to fund 15-25 proposals for up to 3 years within a range of \$75,000 to \$250,000 per year per project. The proposal deadline is June 22, 2000. For more details, consult the notice at <http://www.nsf.gov/pubs/2000/nsf0077/nsf0077.txt>.

MARS FAILURES PROMPT SCRUTINY OF NASA'S "FASTER, BETTER, CHEAPER" STRATEGY

Last years failures of the Mars Climate Orbiter and Mars Polar Lander have prompted both internal NASA and congressional scrutiny of NASA's "Faster, Better, Cheaper" (FBC) strategy. The recently released Young Report (Mars Program Independent Assessment Team) and the Spear Report (NASA Faster, Better, Cheaper Task Force) both examined the viability of the strategy. Both concluded that NASA and its Mars Program managers at the Jet Propulsion Laboratory were pushing too hard, and too fast. As noted by the Spear Report, "we need to slow down some, not rush too quickly into important programs and projects, plan and implement them more carefully, and move away from fixations on cost and near-term gain. The Young report pointed out management faults in the Mars program and the need for more cost flexibility. Both reports, however, stuck by the FBC concept, the Young report noting that "faster, better, cheaper, properly applied, is an effective concept for guiding program implementation that should continue."

A. Thomas Young will outline Assessment Team's findings to the House Science Committee on April 12. In a related statement to the press, Science Committee chair James Sensenbrenner (R-WI) noted "during the past few months, some have argued that NASA's 'faster, better, cheaper' philosophy was the underlying cause. However, it's important to recognize the Young Report points not to the 'faster, better, cheaper' philosophy, but rather to an overly aggressive interpretation of 'faster, better, cheaper.' Given the Young Report's finding that these Mars missions were underfunded by 30 percent, I am concerned NASA may have misjudged the minimum resources needed to successfully complete these missions under the 'faster, better, cheaper' philosophy. This approach has resulted in some exhilarating achievements and some incredible failures. The failures are more exasperating because they were caused by such seemingly simple mistakes."

Sensenbrenner added, "Many of us in Congress have worked to ensure NASA had the space science funds necessary to successfully complete its mission. Congress has given NASA more money than NASA requested in four of the last six years [1995, 1998, 1999, and 2000] and provided more money for NASA's space science programs, which fund the Mars program, than NASA requested in five of the last six years [1995, 1996, 1997, 1999, and 2000]. It now appears those requests may have shortchanged the mission requirements."

Report on Project Management in NASA by the Mars Climate Orbiter Mishap Investigation Board (Young Report) http://www.nasa.gov/newsinfo/mpiat_summary.pdf

Final Report of the NASA Faster, Cheaper, Better Task Force (Spear Report)
<ftp://ftp.hq.nasa.gov/pub/pao/reports/2000/fbctask.pdf>

NATIONAL RESEARCH COUNCIL REPORT HIGHLIGHTS ENGINEERING CHALLENGES TO SPACE STATION OPERATION

The National Academy's National Research Council's Commission on Engineering and Technical Systems recently released their report on Engineering Challenges to the Long-Term Operations of the International Space Station. The panel looked at issues related to assured access and launch vehicle fleet operation, station operations, maintenance and reliability, extravehicular activities and robotics, equipment upgrades, software and communications, and end-of-life disposal.

The report highlights several long-term operational issues but concludes that there are "no major engineering problems with the design of the International Space Station that would adversely affect long-term operations." Among the concerns raised is that maintenance demands will leave station crew with little time to conduct experimental work. Suggested fixes include adding a research payload specialist to the seven-member station crew and adding communications bandwidth to enable mission-control and research data to flow simultaneously.

On-line text available at <http://bob.nap.edu/books/0309069386/html/>

Also released earlier this year, National Research Council (Space Studies Board) report on Institutional Arrangements for Space Station Research looks at the current NASA structure for managing space station research, outlines guiding principles, identifies alternative models, and recommends these functions be delegated to a proposed new non-governmental organization run by researchers. See on-line text at <http://www.nationalacademies.org/ssb/iassrmenu.htm>.

PET GRAND OPENING

PISCATAWAY, NJ. April 3, 2000 -- Explore the newly inaugurated IEEE/EAB Precollege Engineer Training (PET) website. PET is dedicated to the alliance of engineers and educators for the promotion of science and technology education. PET offers specific plans and step by step procedures to prepare engineers to serve as resources to precollege educators, both in and out of the classroom. Access this site through the Educational Activities Home Page or at <http://www.ieee.org/organizations/eab/pet>.

Though open, this site remains under construction. For the next six months expect to see additional information and periodic updates. The IEEE Region 1 Worcester County, Massachusetts Section has volunteered to field-test PET in September 2000. Members will be following the modular step by step plan and contacting educators in their communities.

A sampling of the site includes:

- The Process: details various ways of contributing and how to go about it.
- Success Stories: first person stories by engineers who have helped in schools.
- Initial contact: where to start in the school and preparation tips for your first day.
- Other ways to help: ways to contribute other than in the classroom.
- Basic tools: helpful advice; learn about teachers and what they need.
- Links: teaching kits, other valuable sites.

PET enables IEEE members to have a positive impact on and a mutually valuable experience with students, teachers, and school boards. 2000 Educational Activities Board Vice President Lyle Feisel has said, "PET addresses the growing world wide problem of technological illiteracy and enables engineers to contribute to its solution."

Initial funding for PET came from IEEE President's Project Fund and the Life Member Committee. Send your comments and suggestions for the site to pet@ieee.org or contact Lynn Murison at l.murison@ieee.org.

Attention Program Evaluators and Department Heads:

IEEE/ABET Will Host Two Training Workshops at ASEE Annual Convention

PISCATAWAY, NJ. April 7, 2000 -- On June 18, 2000, at the Adam's Mark Hotel, St. Louis, MO, the IEEE Educational Activities Board (EAB) will hold two educational workshops during the American Society for Engineering Education (ASEE) annual conference. Both the new Accreditation Board for Engineering and Technology (ABET) Engineering Criteria 2000 and the classic Engineering Technology Criteria will be presented at simultaneous all day workshops.

The EC-2000 Training Workshop is co-sponsored by the Committee on Engineering Accreditation Activities (CEAA). The purpose of this workshop is to train IEEE members serving as program evaluators and department heads under the new ABET Engineering Criteria 2000. Full implementation of the new criteria is due Fall 2001.

Trainers are:

- Mr. C. Denny Avers, Retired from IBM, Training Coordinator for the Committee on Engineering Accreditation Activities (CEAA)/IEEE Representative to the Engineering Accreditation Commission (EAC) of ABET
- Dr. William E. Sayle, II, Professor and Associate, Chair School of Engineering and Computer Engineering, Georgia Institute of Technology/IEEE Representative to the Engineering Accreditation Commission (EAC) of ABET
- Dr. David L. Soldan, Ph.D., Professor and Head, Electrical and Computer Engineering, Kansas State University/Member of the Committee on Engineering Accreditation Activities (CEAA)

The Engineering Technology Workshop is co-sponsored by the Committee on Technology Accreditation Activities (CTAA). During this workshop, IEEE members who serve as program evaluators and department heads will be taught the classic ABET Engineering Technology Criteria.

Trainers are:

- Mr. Richard A. Painter, Vice President, Painter Engineering, Inc./Program Evaluator Coordinator for the Committee on Technology Accreditation Activities (CTAA)
- Professor Rosida Coowar, Assistant Chair, Department of Engineering Technology, University of Central Florida/ Member, Committee on Technology Accreditation Activities (CTAA)

Both workshops will take place from 8:30 to 5:30 p.m., with a lunch break from 12:30 to 1:30. Registration and a continental breakfast will be held from 7:30 to 8:30 a.m. The cost for each workshop to non-IEEE Evaluators is \$200.00 in advance, and \$250.00 at the door.

To pre-register, or for more information, contact:

Accreditation Administrator
IEEE Educational Activities
445 Hoes Lane
Piscataway, NJ 08855-1331
Phone: 1 732 562 5484
E-mail: eab-accred@ieee.org

IEEE-USA SLATES PROFESSIONAL DEVELOPMENT CONFERENCE FOR SEPT. 1-4, 2000

IEEE-USA is holding its 2000 Professional Development Conference at Marriott's Camelback Inn Golf Resort and Spa in Scottsdale, AZ, Sept. 1-4. With the theme, "The Millennium and Beyond," the conference explores professional and career issues of interest to new and experienced engineers. Topics range from career planning and professional skills management to engineering leadership, mentoring, financial planning, organizational ethics, diversity and public policy.

The third millennium is spawning new technologies and business models that change the world engineers face. To help engineers thrive, sessions are slated on career planning, networking, and entrepreneurial skills, as well as building customer relationships and satisfaction. Additional sessions will focus on developing the skills engineers need to move into leadership positions such as project, time and influence management. Legislative issues that affect engineers' careers will also be covered.

Further, the conference offers opportunities for younger engineers to interact with experienced engineers. The IEEE's Graduates of the Last Decade (GOLD) program will sponsor sessions specifically geared for younger engineers.

The program includes a mix of plenary sessions with keynote speakers, concurrent one-hour tutorials, two-hour workshops and poster board sessions. Registrants earn continuing education units (CEUs) for conference participation from the International Association for Continuing Education and Training (IACET).

For additional information, go to <http://www.ieeeusa.org/prodevcon/index.html>; or contact Linda S. Hall at l.hall@ieee.org (e-mail), +1 202 785 0017 ext. 8325 (voice), or +1 202 785 0835 (fax).

IEEE-USA's E-ZINEs OFFER TARGETED INFORMATION ON CAREER, POLICY ACTIVITIES

If you're not already one of the more than 5,000 subscribers to IEEE-USA TODAY and IEEE-USA EYE ON WASHINGTON, issued monthly and biweekly, respectively, then you're not up-to-date on the latest targeted news on the organization's career and policy activities.

The April 14 IEEE-USA EYE ON WASHINGTON includes blurbs on House legislation to promote teacher development and private-sector involvement in math and science education, plus a White House report on reversing under-representation of ethnic and gender groups in the sci-tech ranks.

The April 17 IEEE-USA TODAY includes blurbs on the organization's improved online job board and resume referral service at <http://www.ieeeusa.org/jobs>, as well as on how to be listed in the 2000 DIRECTORY OF ELECTROTECHNOLOGY AND INFORMATION-TECHNOLOGY CONSULTANTS at <http://www.ieeeusa-consultants.org/>

Subscribe now to one or both of the update services at <http://www.ieeeusa.org/emailupdates>.

The IEEE Cincinnati Section Executive Committee
Member Names and Phone Numbers

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MAY 2000

IEEE CINCINNATI SECTION NEWSLETTER